

## Product datasheet for **AP01354PU-N**

### CTNND1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	Catenin- $\delta$ 1 antibody detects endogenous levels of Catenin- $\delta$ 1 protein. (region surrounding Gly224)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 108 kDa
Gene Name:	catenin delta 1
Database Link:	<a href="#">Entrez Gene 1500 Human O60716</a>



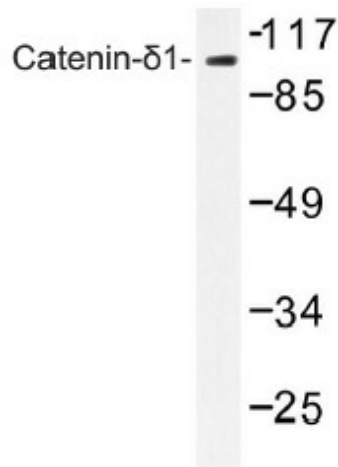
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**Background:**

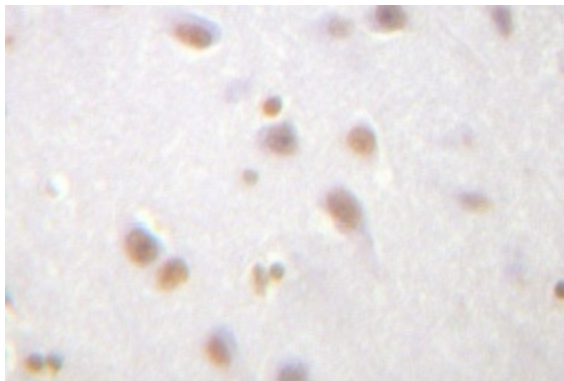
The  $\alpha$ ,  $\beta$ ,  $\delta$ , and  $\gamma$ -catenins are proteins that bind to the highly conserved, intracellular cytoplasmic tail of E-cadherin. Together, the catenin/cadherin complexes play an important role mediating cellular adhesion.  $\alpha$ -catenin, a 102 kDa protein, interacts with E-cadherin associated protein, and also associates with other members of the cadherin family, such as N-cadherin and P-cadherin. The 92 kDa  $\beta$ -catenin associates with the cytoplasmic portion of E-cadherin, which is necessary for the function of E-cadherin as an adhesion molecule.  $\beta$ -catenin also complexes with the tumor suppressor protein APC.  $\delta$ -catenin interacts with Presenilin 1 and is expressed in the brain. The gene encoding  $\delta$ -catenin maps to human chromosome 5p15.2. A hemizygous loss of the gene encoding  $\delta$ -catenin leads to the mental retardation associated with Cri-du-Chat syndrome.  $\gamma$ -catenin, also known as plakoglobin, is an 80-88 kDa protein that binds  $\alpha$ -catenin and N-cadherin. In addition, the transmembrane phosphatase PTPm associates with catenin/cadherin complexes and may regulate complex signaling.

**Synonyms:**

CTNND1, KIAA0384, p120 catenin, p120(cas), Delta-Catenin

**Product images:**


Western blot (WB) analysis of Catenin- $\delta$ 1 antibody (Cat.-No.: AP01354PU-N) in extracts from HuvEc cells.



Immunohistochemistry (IHC) analyzes of Catenin- $\delta$ 1 antibody (Cat.-No.: AP01354PU-N) in paraffin-embedded human brain tissue